

Table C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1999

[Dollars in thousands]

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| Agency and subdivision | Physical sciences | | | | | Environmental sciences | | | | |
|---|-------------------|-----------|----------------|---------|---------------------------------|------------------------|------------------|-----------------|-------------------|---|
| | Total | Astronomy | Chem- istry | Physics | Physical sciences, n.e.c. | Total | Atmos- pheric | Geo- logical | Ocean- ography | Environ- mental sciences, n.e.c. |
| Total, all agencies | 976,358 | 39,447 | 260,322 | 528,093 | 148,496 | 1,479,532 | 505,453 | 248,097 | 272,713 | 453,269 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 45,801 | 0 | 43,431 | 2,370 | 0 | 5,654 | 4,839 | 815 | 0 | 0 |
| Agricultural Research Service | 30,098 | 0 | 28,621 | 1,477 | 0 | 1,906 | 1,840 | 66 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service | 12,407 | 0 | 12,407 | 0 | 0 | 573 | 573 | 0 | 0 | 0 |
| Forest Service | 3,296 | 0 | 2,403 | 893 | 0 | 3,175 | 2,426 | 749 | 0 | 0 |
| Department of Commerce, total | 84,509 | 0 | 37,146 | 47,232 | 131 | 291,707 | 115,966 | 7,717 | 106,278 | 61,746 |
| Nat'l Inst of Standards & Tech | 59,448 | 0 | 24,049 | 35,268 | 131 | 284 | 0 | 284 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 25,061 | 0 | 13,097 | 11,964 | 0 | 291,423 | 115,966 | 7,433 | 106,278 | 61,746 |
| Department of Defense, total | 262,109 | 15,000 | 42,256 | 158,175 | 46,678 | 180,579 | 36,178 | 3,639 | 64,091 | 76,671 |
| Department of the Air Force | 101,173 | 0 | 17,483 | 83,449 | 241 | 9,082 | 4,024 | 2,133 | 0 | 2,925 |
| Department of the Army | 32,545 | 0 | 8,549 | 13,607 | 10,389 | 78,532 | 11,919 | 1,506 | 0 | 65,107 |
| Department of the Navy | 5,030 | 0 | 0 | 0 | 5,030 | 71,437 | 5,703 | 0 | 57,147 | 8,587 |
| Defense Agencies, total | 123,361 | 15,000 | 16,224 | 61,119 | 31,018 | 21,528 | 14,532 | 0 | 6,944 | 52 |
| Ballistic Missile Defense Org | 32,778 | 15,000 | 3,649 | 14,129 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Adv Rsch Projects Agcy | 13,731 | 0 | 0 | 13,731 | 0 | 6,944 | 0 | 0 | 6,944 | 0 |
| Defense Threat Reduction Agency | 64,277 | 0 | 0 | 33,259 | 31,018 | 14,584 | 14,532 | 0 | 0 | 52 |
| Washington Headquarters Svcs | 12,575 | 0 | 12,575 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Energy | 334,846 | 0 | 52,563 | 202,403 | 79,880 | 80,219 | 0 | 0 | 490 | 79,729 |
| Dept of Health & Human Svcs, total | 67,222 | 0 | 59,676 | 7,546 | 0 | 12,977 | 0 | 0 | 0 | 12,977 |
| National Institutes of Health | 67,222 | 0 | 59,676 | 7,546 | 0 | 12,977 | 0 | 0 | 0 | 12,977 |
| Dept of Housing & Urban Development | 0 | 0 | 0 | 0 | 0 | 395 | 0 | 0 | 0 | 395 |
| Department of the Interior, total | 42 | 0 | 0 | 0 | 42 | 369,797 | 2,054 | 196,486 | 18,028 | 153,229 |
| Bureau of Reclamation | 0 | 0 | 0 | 0 | 0 | 2,027 | 0 | 0 | 0 | 2,027 |
| Geological Survey | 0 | 0 | 0 | 0 | 0 | 344,839 | 0 | 195,966 | 0 | 148,873 |
| Minerals Management Service | 42 | 0 | 0 | 0 | 42 | 20,055 | 823 | 470 | 18,028 | 734 |
| National Park Service | 0 | 0 | 0 | 0 | 0 | 2,876 | 1,231 | 50 | 0 | 1,595 |
| Department of Transportation, total | 50,582 | 0 | 0 | 47,787 | 2,795 | 34,357 | 26,909 | 2,940 | 551 | 3,957 |
| Coast Guard | 0 | 0 | 0 | 0 | 0 | 551 | 0 | 0 | 551 | 0 |
| Federal Aviation Administration | 46,292 | 0 | 0 | 46,292 | 0 | 21,608 | 21,608 | 0 | 0 | 0 |
| Federal Highway Administration | 4,290 | 0 | 0 | 1,495 | 2,795 | 11,098 | 5,301 | 2,940 | 0 | 2,857 |
| Federal Transit Administration | 0 | 0 | 0 | 0 | 0 | 1,000 | 0 | 0 | 0 | 1,000 |
| Research & Special Programs Admin ... | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 100 |
| Department of the Treasury, total | 1,991 | 0 | 139 | 8 | 1,844 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 1,991 | 0 | 139 | 8 | 1,844 | 0 | 0 | 0 | 0 | 0 |

See explanatory information, if any, and SOURCE at end of table.

Table C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1999

[Dollars in thousands]

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| Agency and subdivision | Physical sciences | | | | | Environmental sciences | | | | |
|--|-------------------|-----------|----------------|---------|---------------------------------|------------------------|------------------|-----------------|-------------------|---|
| | Total | Astronomy | Chem- istry | Physics | Physical sciences, n.e.c. | Total | Atmos- pheric | Geo- logical | Ocean- ography | Environ- mental sciences, n.e.c. |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 10,505 | 0 | 8,853 | 0 | 1,652 | 119,043 | 56,481 | 10,618 | 12,756 | 39,188 |
| Internat'l Development Cooperation | | | | | | | | | | |
| Agency, total | 0 | 0 | 0 | 0 | 0 | 3,290 | 0 | 0 | 0 | 3,290 |
| Agcy for Internat'l Development ¹ | 0 | 0 | 0 | 0 | 0 | 3,290 | 0 | 0 | 0 | 3,290 |
| Library of Congress | 544 | 0 | 435 | 0 | 109 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 102,849 | 24,447 | 8,212 | 59,080 | 11,110 | 381,309 | 263,024 | 25,849 | 70,414 | 22,022 |
| National Archives & Records Admin | 120 | 0 | 70 | 50 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 15,238 | 0 | 7,541 | 3,442 | 4,255 | 205 | 2 | 33 | 105 | 65 |

¹ Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1999-2001) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1999, 2000, and 2001